

New claims:

Sub A

1. The use of a radiation-curable composite layered sheet or film comprising at least one substrate layer and one outer layer for coating moldings, wherein the outer layer is composed of a radiation-curable composition which comprises a binder having a glass transition temperature of more than 40°C.

2. The use of a sheet or film as claimed in claim 1, wherein the outer layer is transparent.

3. The use of a sheet or film as claimed in claim 1 or 2, wherein there is additionally a coloring interlayer between the substrate layer and the outer layer.

4. The use of a sheet or film as claimed in any of claims 1 to 3, wherein there is additionally a layer of polymethyl methacrylate between the coloring interlayer and the outer layer.

5. The use of a sheet or film as claimed in any of claims 1 to 4, wherein the radiation-curable composition is in the noncrosslinked state.

6. The use of a sheet or film as claimed in any of claims 1 to 5, wherein the radiation-curable composition comprises polymers containing ethylenically unsaturated groups, alone or as a mixture with low molecular mass, radiation-curable compounds, or mixtures of saturated, thermoplastic polymers with ethylenically unsaturated compounds.

7. The use of a sheet or film as claimed in any of claims 1 to 6, wherein the substrate layer comprises a layer of thermoplastic polymers, particularly polymethyl methacrylates, polybutyl methacrylates, polyurethanes, polyethylene terephthalates, polybutylene terephthalates, polyvinylidene fluorides, polyvinyl chlorides, polyesters, polyolefins, polyamides, polycarbonates, acrylonitrile-butadiene-styrene (ABS) polymers, acrylic-styrene-acrylonitrile (ASA) copolymers, acrylonitrile-ethylene-propylene-diene-styrene copolymers (A-EPDM), polyether imides, polyether ketones, polyphenylene sulfides, polyphenylene ethers or mixtures thereof.

Sub Amt

8. A process for producing a radiation-curable composite layered sheet or film as claimed in any of claims 1 to 7, which comprises extruding the radiation-curable composition.

Sub B1

5 9. A process as claimed in claim 8, wherein the radiation-curable composition and at least one further layer are coextruded.

Sub B2

10. A process for producing coated moldings, especially motor vehicle parts, which comprises adhesively bonding the radiation-curable composite layered sheet or film as claimed in any of claims 1 to 7 to said moldings and then curing the outer layer by means of radiation.

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15 11. A process for producing coated polymer moldings, especially motor vehicle parts, which comprises thermoforming a radiation-curable composite layered sheet or film as claimed in any of claims 1 to 7 in a thermoforming mold and injection-backmolding the reverse of the substrate layer with the polymer composition, the radiation-curing of the outer layer taking place after the thermoforming operation or after injection backmolding.

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12. A coated molding obtainable by a process as claimed in claim 10 or 11.

Sub B1

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13. A sheet or film comprising at least one substrate layer and one outer layer composed of a radiation-curable composition which comprises a binder having a glass transition temperature of more than 40°C, wherein there is additionally a coloring interlayer between the substrate layer and the outer layer.

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14. A sheet or film as claimed in claim 13, wherein there is additionally a layer of polymethyl methacrylate between the coloring interlayer and the outer layer.

Sub B2

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15. A sheet or film as claimed in either of claims 13 and 14, wherein the radiation-curable composition comprises polymers containing ethylenically unsaturated groups, alone or as a mixture with low molecular mass, radiation-curable compounds, or mixtures of saturated, thermoplastic polymers with ethylenically unsaturated compounds.

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